High Performance Digital Video Recorder With Linux OS



The default user name is : admin The default password is : 1234

Manual
Manual for MPEG4/H.264 E Series
4-8-16-CH Standalone DVR

CAUTION

1. INSTALLATION ENVIRONMENT

- 1.1 Keep away from heat and extreme-temperature
- 1.2 Avoid direct sunlight
- 1.3 Keep away from humid areas
- 1.4 Place horizontally
- 1.5 Do not place anything on top of DVR
- 1.6 Do not block the fan

2. ACCESSORIES

Refer to the particular packing list

- 2.1 One power cord
- 2.2 One CAT5e network patch cable (Not a crossover cable)
- 2.3 One user manual
- 2.4 One installation CD
- 2.5 One ownership registration card
- 2.6 One remote control
- 2.7 Two AAA batteries

Chapter 1: Features and Specifications

1.1SPECIFICATIONS FOR DVR

Parameter	4CH	8CH	16CH
Processor	High performance	industry level embedde	ed microprocessor
Operation	Embedded operating system (Linux)		
System			
System	Pentaplex operation: Multi-channel viewing, recording,		
Resources	- · ·	d network operation si	imultaneously
Interface	Friendly GUI (grap		
Input Devices		panel, remote control o	or network simulator
Input	Built-In Alpha nun		
Shortcut		nouse right-key shortcu	it menu, USB mouse
	screen switch func	tion	
Video	MPEG-4/H.264		
Compression	2011		
Audio	PCM		
Compression	4/0/1 cOTT	ATTOO	/DAT > DNG (1.01)
Video Input	4/8/16CH composite video input: (NTSC/PAL) BNC (1.0V _{P-P} ,		
Y'' 1 O . 4 4	750)		
Video Output	2 BNC (1.0VP-P 75 ohm) composite video output, 1 VGA		
Video Standard	output Switch between BNC and VGA output		
Recording	NTSC (525 line, 60f/s), PAL (625 line, 50f/s)		
Speed	Real-time recording: NTSC 1f/s to 30f/s per channel and PAL 1f/s to 25f/s per channel		
Display	1/4 windows	1/4/9 windows	1/4/9/16 windows
Touring	Supported		
Resolution	Real-time monitor:	D1 704×576/704×480	
(NTSC/PAL)	Record backup: CIF 52×288/ 352×240		
Motion	192 (16×12) grid a	rea configurable; multi	-level detection
Detection	sensitivities		
Image Quality		ol selectable per chanr	
Area Masking	Random size select	tion for area masking p	protection
Image	Channel information, time information and protected area		
Information	covering informati		
TV Adjust	Auto-adjustment for anemographic images; luminance and		
	contrast configurable		
Screen Lock	Specific display screen lockable (Blue screen covered for		
CI.) to ensure data securit	
Channel		ording status, screen lo	
Information	status, and motion detection status shown on the bottom left of		
Colon	display screen Hue, luminance, contrast, saturation and signal gain configurable		
Color Configuration		muasi, saturation and s	signai gam configurable
Comiguration	for each channel		

Audio Input	4/8/16CH audio input 200-1000mv 10KO
Audio Output	1CH audio output 200-3000mv 5KO(RCA)
Hard Disk	Supports up to 8 high capacity Hard Drives (6 with CD-
Hai d Disk	RW/DVD-RW)
Hard Disk	Audio PCM 28.8Mbyte/Hour ADPCM 14.4Mbyte/Hour
Consumption	Video 56-900Mbyte/Hour
Hard Disk	Hibernating function for non-working Hard Drives reduces
Management	power waste and extends life of Hard Drives
Recording	Manual, motion detection, schedule and alarm recording
Mode	
Recording	1 to 120 minute file record duration configurable (Default 60
Duration	minutes)
Overwrite/Stop	Overwrite mode or stop mode selectable when hard disk is full
Mode	
Record Search	Search record by time, type and channel
Playback	Multi-level fast-forward, multi-level reverse, single frame
	playback and scroll
Multi-switching	Switch between recorded files
Mode	Switch between channels recorded at the same time
	Play recorded files continuously (Auto-play record of the same
	channel one file after another)
Multi-channel	1 channel, 2 channel or Multi-channel playback for specific
Playback	mode
Display Zoom	Split screen/adaptive screen/full screen for multi-channel
	playback
Selective	Zoom in feature under full screen mode
Enlargement	
Backup	Hard Drive backup
Features	External USB storage devices (USB flash memory, Removable
	Hard Drive, USB CD-RW).
	IDE CD-RW, IDE DVD-RW
N7 / N	Network download and backup
Network	Real-time monitoring
Control	DVR configuration through client and web browser
	DVR update through client and web browser
	Check video loss and alarm information Pan-tilt control
	Record download and playback Multi DVP using Control Management Software
	Multi-DVR using Central Management Software
	Duplex transparent serial port Network alarm input and output
	Voice dialog
	Multi-screen preview
Motion	192 (16X12) configurable detection areas; multi-level sensitivity
Detection	adjustment recording and dialog box popup, relay triggers
Detection	message notification
Video I ess	<u> </u>
Video Loss	Relay trigger and on screen message notification

External Alarm	Sensor recording, Relay trigger and on screen message notification
Manual Alarm	Enable and disable sensor inputs
Control	Control output relays
Alarm Input	_ · · · · ·
	16 channel grounding alarm input
Alarm Output	6 channel relay output (1 controllable +12V output)
Alarm Relay	30VDC 2A, 125VAC 1A
USB Port	Connect with external USB devices
Network	RJ45 10M/100M adaptive Ethernet port
Interface	
RS485	Pan-tilt control interface, multiple protocols supported
RS232	Common serial port, keyboard interface and transparent serial port
Hard Disk	IDE interface status, Hard Drive information, working Hard
Information	Drive number
Bit Rate Stat.	Bit rate statistic of each channel; bit rate waveform display
System Log	1024 items system log; search log by time and type
System Version	Recording channel number, alarm input & output channel
	number, system version and release date
Online User	Online user display with lock out function
User	Multi-level user management; 48 configurable functions
Management	Supports adding and modifying users and groups (no limitation)
Password	Account lock: 5 password input attempt limitation. Lock out for
Protection	30 minutes
Update	Web browser, client and specific update tool
	USB flash memory update
Login	Login by user name and password to ensure security
Logout	Logout, shutdown and restart selectable
Shutdown	Shutdown power configurable
Power Supply	220V±25% 50±2% Hz / 110V 60Hz
Power	40W
Consumption	
Working	0C -+ 55C
Temperature	
Working	10% - 90%
Humidity	
Working	86kpa - 106kpa
Atmosphere	
Size	2U standard size; 440mm (width) X 460mm (depth) X 89mm
	height
Weight	7.5 KG
Installation	Desk top or 19" rack mount
Mode	

1.2. FEATURES

	T
	1 Analog CCTV monitor output, 1 spot monitor output and 1
	VGA monitor output
Viewing	1/4/9/16 window monitoring
Options	Display of real-time bit rate and hard disk consumption
	Information of recording, motion detection, video loss, screen
	lock, view log file etc
	Video Compression: MPEG-4/H.264
Compression	4/8/16CH video compression and real-time hardware
Mode	compression for each channel
	Real-time synchronization for audio and video
	Supports up to 8 large capacity Hard Drives
Storage	Overwrite mode and stop mode selectable when hard disk is full
	Special storage format for data security
	IDE port (hard disk and IDE CD-RW) backup and USB port
Backup	(USB flash memory, USB removable Hard disk and USB CD-
Баскир	RW) backup
	Download and backup through network
	Multi-task operation: real-time recording, single channel
	playback, remote monitoring, records search and etc.
	Multiple recording modes: manual recording, schedule recording,
	alarm recording, motion detection recording (pre-recording for
Deconding and	alarm recording and motion detection recording).
Recording and Playback	Record playback through network
Tayback	Fast classified record research function.
	Multiple playback mode: fast-forward, slow-forward, single
	frame and backward.
	Display of accurate recording time.
	Selective enlargement under full screen mode
	Remote monitoring
	Pan-tilt control
	Record search and playback
Network	DVR parameter configuration and software update
Operation	Remote alarm management and system log search
	Embedded TCP/IP protocol enables Web browser control
	Multi-level user management; power configurable for different
	user and group
	4/8/16 channel grounding alarm input; video loss alarm and
	motion detection alarm supported; panel alarm includes smoke
Alarm Dalay	detector, IR detector etc.
Alarm Relay	Multi-channel relay output, enables alarm relay and onsite
	lighting control
	Protective circuit for both alarm input and alarm output
	Special interface for alarm input and pan-tilt control
Communication	One RS232 port used for keyboard expansion, normal serial port,
Interface	matrix control etc.
	One RJ-45 port for network control

Pan-tilt Cont rol	Support pan-tilt decoder using RS485 port Multiple decoding protocols expandable for pan-tilt and speed dome control
Smart HDD Manager	Alarm outputs for corrupt and unusable Hard Drives Allows non-working hard disks to hibernate to reduce power consumption and extend lifetime.
Intelligent Operation	Full mouse control, built in keyboard & copy, paste, & function.

Chapter 2 Operational manual before installation

2.1 PRIMARY CHECK

• When you receive the DVR, the first thing you must do is to check if there is any obvious damage to the appearance. The protective materials used for the package of the DVR can handle most accidental clashes during transportation.

2.1.1 OPENING YOUR DVR

• Open the box and check all contents. Check the items against the list on the warranty card. After check is complete remove the protective cover of the DVR.

2.1.2 FUNCTIONS AND CONNECTIONS

- Various key functions on the front panel and various interfaces on the rear panel are introduced in detail in this instruction manual.
- Please check the model against your purchase carefully. The tag on the rear panel is very important for after-sales service. Do not destroy or discard it. To provide warranty, the product's serial number is required.

2.2 INTERNAL FUNCTIONS

2.2.1 INSTALLING HARD DISK DRIVES

• Hard Drives must be jumped as Master or Slave for each IDE slot

2.2.2 SELLECTING HARD DISKS

• 7200 rpm or higher Hard Disk Drives have been tested to work best with our DVRs.

2.2.3 SELECTING HARD DRIVE SIZE

- 1. The DVR can handle 40 Gig to 500 Gig Hard Drives, (Stability tested 120 Gig to 250 Gig in the lab)
- Calculating recording time of Hard Drive The computing formula of total Hard Drive size is:

The total size (M) = channel numbers X recording hours X Hard Drive used per hour (M/h)

So we can get the computing formula of recording hours:

Recording hours=<u>the total size M</u>

Hard Drive used per hour (M/h)

• Because the DVR adopts MPEG4/H.264 compression technology, this will produce a considerable dynamic range when compressing data. So when you calculate the total Hard Drive size, you should estimate the average Hard Drive size per hour per channel.

Example: For a 4ch DVR, the average size of Hard Drive used per hour per channel is 200M/h. Now if you hope the DVR can record for 30 days with 24 hours one day, the total size of Hard Drive needed is: 4 channels * 30 days * 24 hours * 200 M/h = 576G. So you need install five 120G Hard Drive s or four 160G Hard Drives.

2.2.4 HARD DRIVE INSTALLATION (SEE DIAGRAM IN CHAPTER 3)

- IDE cables, fastening screws and a Hard Drive shelf are already provided in the accessories to simplify your installation.
- Pay special attention to Hard Drive jumper configuration: If only one Hard Drive is connected to an IDE port, the jumper must be to MASTER. If two Hard Drives are connected to one IDE port, one jumper must set as MASTER and the other as a SLAVE. Do not set Hard Drive as CS Enable or Cap Limit.

2.2.5 ABOUT CD/DVD BURNERS

• DVR supports IDE port and USB port Burners. If you use an IDE port to connect CD or DVD burner, you must set the jumper as MASTER. Use our company's already tested brands. You can consult the technical support or visit our website for details. After Hard Drive and burner installation, double check that the IDE cables and power cord is secured before mounting the outer cover.

2.2.6 CONNECTION OF EXTERIOR POWER SUPPLY

- Switch the clasp near the power socket to the correct position according to the input voltage. (110V or 220V operation)
- It is recommended to use an uninterruptible power supply (UPS) to protect the DVR from power surges and failures.

2.2.7 INSTALL DVR IN A SERVER CABINET

• The size of DVR is 2Ustandard industrial case 441mm (Wide) x430mm (Deep) x89mm (High)

Put the cabinet in a place with circulated air. Avoid extreme heat, humid and heave dusty conditions. You should clean inlet opening, cooling fan etc. with a soft dry brush.

2.3 CONNECTING VIDEO/AUDIO INPUT/OUTPUT

2.3.1 VIDEO INPUT CONNECTIONS

- The video input interface is BNC. The request of video input is NTSC/PAL BNC $1.0V_{P-P}$ 75O.
- The video signal should meet terms with the national standards. High SNR, low distortion, low interference, natural color and suitable brightness are needed for the video signal.
- To ensure a stable and reliable camera signal, the cameras should be installed properly. Under backlighting, low illumination surroundings that are not suggested, the user should use a backlight compensation camera or low illumination camera.
- The power supply of the camera should be grounded with the power supply of the DVR to ensure the normal operation of the camera.
- Use a high quality, good-shielded cable and choose a suitable BNC model according to the transmission distance. For longer distance, you should use twisted pair, add video compensation devices or use optical fiber transmission to ensure video quality.
- Keep the video signal away from strong electromagnetic interference, especially high tension current.
- BNC connections on both ends should be well connected. Avoid dry joint, lap welding and rust.

2.3.2 AUDIO INPUT CONNECTIONS

- 4, 8 channel and 16 channel DVRs use an RCA audio connections. Due to high impedance of audio input, amplified microphones must be used.
- Audio transmission is similar to video transmission. Try to avoid interference, dry joint, loose contact and high tension current.

2.3.3 VIDEO OUTPUT CONECTIONS

- Video output includes 2 BNC (1.0VP-P, 750) outputs and a VGA output.
- We recommend you use a CCTV monitor as video output device.
- The CCTV monitor has the following advantages:
 - 1. Can adapt long-time monitoring. Ordinary residential devices are easy to age, damage and even burn under long-time operation.
 - 2. Has higher definition and color recover ability
 - 3. Better stability and anti-interference ability, adapt to various complicated surrounding.
- When a PC monitor is used, the following points should be considered
 - 1. PC monitor cannot be powered on for long period of time.
 - 2. Regular demagnetization benefits the monitor to work in normal state.
 - 3. Keep away from strong electromagnetic interference devices.
- Using TV as video output device
 - 1. Reduce the hours of use to prevent image burning
 - 2. Control interference from the power supply and other devices.
 - 3. Short circuit problems of low quality TVs may damage other devices.

2.3.4 AUDIO OUTPUT CONNECTIONS

- The audio output parameter of the DVR is 2000mvp-p 1KO (BNC). It can connect directly with low impedance earphone, active sound box or amplifier-drive audio output device.
- If the sound box and the pick-up cannot be separated spatially, it will most likely cause squeaking. At this time, you can adopt the following measures:
 - 1. Use better sound pick-up with better directing property.
 - 2. Reduce the volume of the sound box to the value under which squeaking discontinues.
 - 3. Using more sound-absorbing materials that can reduce voice echo and improve acoustics environment.
 - 4. Adjust the layout to reduce squeaking.

2.4 CONNECTION OF ALARM INPUT AND OUTPUT DEVICES

- Before connection, please pay attention to the following points:
 - 1. Alarm input
- First confirm if the alarm input is a grounding alarm input and not a voltage alarm input. A grounding signal is needed for alarm input.
 - 2. Alarm output

- The alarm output port should not be directly connected to a high power load. To avoid a heavy current that will destroy the relay, use a co contactor between the alarm output port and the load.
 - 3. How to connect PTZ decoder
- Ensure the decoder has the same grounding as the DVR; otherwise common mode voltage may fail to control the PTZ. Shielded twisted wire is recommended and the shielded layer is used to connect to the grounding.
- Avoid high voltage. Ensure proper wiring and protective measures
- For long signal wires, 120O should be parallel connected between A, B lines on the far end to reduce reflection and guarantee the signal quality.
- "485 A, B" of DVR cannot parallel connect with "485 port" of other device.
- The voltage between of A, B lines of the decoder should be less than 5v.
- Provide the power to alarm device with a current less than 1A.
- Poor grounding of the front-end devices may cause damage to chips.

Descriptions about alarm input and output

- 1. ALARM (1...16) are 16 channels grounding alarm input.
- 2. In **OUT** row, 1-NO C, 2-NO C, 3-NO C and 4-NO C are 4
- 3. Normal open relay outputs. 6-NO C NC is a NO/NC relay output.
- 4. "12V": Need peripheral equipment provide +12 power with 1 A current.
- 5. AB: used to connect some control devices such as pan/tilt decoder.
- 6. If you connect many pan-tilt decoders, you should parallel connect
- 7. 120O between A, B lines.
- 8. "ground.
- 16 channel grounding alarm inputs. (Both Normal open and Normal close type)
- Short connect between **COM** end and **GND** end of the alarm detector (the power of the alarm detector must be provided by outside power).
- Parallel connect the Ground of the DVR and the ground of the alarm detector.
- Connect the NC port of the alarm sensor to the DVR alarm input (ALARM)
- If you need to restore the touched-off alarm remotely, you have to supply the controllable 12 V power of the DVR to the alarm detector, such as the smoke detector.
- Connect the ground of the outside power with the ground of DVR.
- 2 ways relay alarm output (normal open contacts). Should provide the power supply to the alarm detector.
- To avoid over loading, please read carefully about the related parameters of the relay. (See below table)
- The controllable +12v can provide the power for restorable smoke detector.

VGA RS232 USB NET

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2.4.1 RELAYS' PARAMETER OF THE ALARM OUTPUT END

- The 25-pin RS485 port is realize pan-tilt-zoom control, enables the activation of alarms. RS485 connection can control carious pan-tilt-zoom decoders, and the specific type of the decoder can be selected in the setting in the menu. Switch out pin number is marked on DB25 plug. The definition of the pin is as below. The broken line the graph means it's being connected inside.
- 1 14 2 15 3 16 4 17 connects to alarm input: ALARM1~ ALARM8
- 5 18-OUT1 6 19-OUT2 two linked open output
- 7 20-OUT3 are connected inside either is controllable +12V output
- 8 9 21 are +12V power output, able to be as the power supple for alarm sensors
- Either pin 10 22 is the B line of RS485, either pin of 11 23 is the A line of RS485
- 12 13 24 25 are earth lines

2.5 SELECT AND CONFIGURE RECORDING MODE

- The DVR can provide multiple recording modes. The user should configure the recording mode due to actual needs. To get the best balance between the recording time and Hard Drive space used, the user should pay attention to the following points:
 - 1. The recording period for motion detection or alarm cannot overlap within the recording schedule.
 - 2. Under poor illumination, the user should avoid using motion detection recording. It is suggested to use a more stabilized alarm recording with linked light control to assure the recording quality and rational use of the Hard Drive.
 - 3. The sensitivity of motion detection should be adjusted and tested according to the environment to avoid to false reports or failure to report.

2.6. NETWORK CONNECTION

- DVR provides a standard RJ45 port and embedded TCP/IP protocol to connect to the LAN or Internet. During configuration of a LAN, please use a switch instead of a HUB. This will guarantee enough bandwidth and avoid long distance wiring. Please choose proper bandwidth access mode.
- Ethernet cable should be made according to standard.

Chapter 3- Table of Key Functions

3.1FRONT PANEL



• **Note:** Clockwise outer jog shuttle stands for right and anticlockwise outer jog shuttle stands for left. Clockwise inner jog shuttle stands for down and anticlockwise inner jog shuttle stands for up.

3.2 TABLE OF KEY FUNCTIONS

Order	Key name	Logo	Function
1	Power switch and indication light	POWER	Power switch - Power off by pressing the key 4 seconds.
2	Recording light	LED	If the LED light is Green, it means the recording is on
3	Plastic Cover		Dust-proof Cover
4	CD-RW / DVD- RW		Used to Back-up records
6	Left & Right Arrows	4 >	L & R On screen Cursor Control; shifting level 1 and level 2 menus; Left and Right Camera Pan control.
	Up & Down Arrows	▲ ▼	Up and Down Onscreen Cursor Control; change setup; change number; Camera Tilt control.
7	IR Remote		Used to receive the remote signal.
8	Cancel	EXIT	Cancels cursor selection. During playback, restore to real-time monitor.
9	Enter	ENTER	Enter Cursor Selection. Enter main menu.

			In the Full Screen Mode: Press the key to display the menu of the Camera PTZ.
10	Function Key	AUX	When setting Motion Detection fields, Fn1 Enables Cursor field selection.
			During playback, display the playback status bar
			During playback work with number key to realize PIP for the playback and real-time monitor.
11	Indication light		Indication light
12	Jog shuttle		Direction control: outer Ring for Left and Right direction, inner Ring for up and down; When in playback, outer circle can control reverse and multi-speed play.
13	Record	REC	Start/stop recording, use with arrow keys
14	Switch View Mode	VIEW	Select for Multi-Screen; During playback, shift between Playback and Real time display.
15	Play last section	H	Play the previous recording file.
17	Slow play	?	3 levels of slow play speed adjustments: (15f/S - 5f/S & frame by frame)
18	Play/stop	▶ /	Play/stop When in real time mode, press to enter record search menu
19	Fast Forward	**	3 levels of fast play speed - X2 - X4 - X8.
20	Play next section	>>	Play the next recording file after the current file.
21	USB		Used for external storage such as memory stick or Hard drive Or for USB mouse control (additional USB on back as well)

3.3 BACK PANEL

• Back Panel may be different according to the model

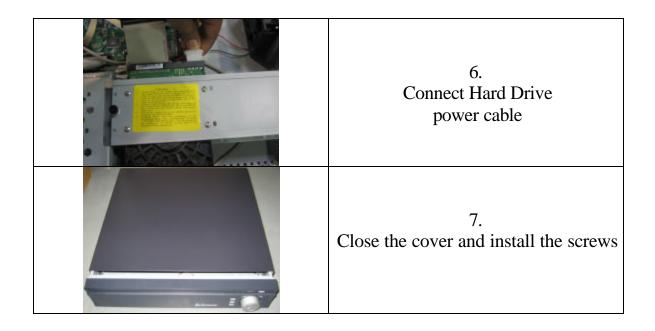


- **Power control:** power on/off, power outlet, power fan
- **Main functions:** RS-485, RS-232, VGA, USB, 1394 port, RJ-45
- Audio and video input and output: audio output, audio input, video output, video input

Note: Use crossover cable to connect DVR directly with computer.

3.4 HARD DISK INSTALLATION

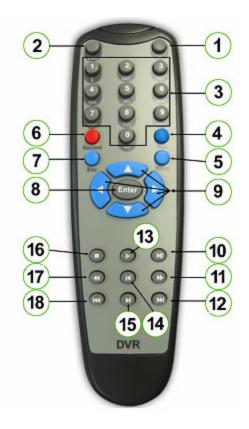
	1. Remove the outer case of the DVR
	2. Remove the hard drive holder from the internal unit
The state of the s	3. Install Hard Drive on the bottom level or the bracket.
	4. Connect Hard Drive bracket
THE STATE OF THE S	5. Connect Hard Drive data cable.



3.5 REMOTE CONTROL

Remote Control Functions

- 1. ID
- 2. View
- 3. Number Pad
- 4. Auxiliary
- 5. Menu
- 6. Record
- 7. Escape
- 8. Enter
- 9. Cursor Keys
- 10. Skip to next
- 11. Jump-backward
- 12. Fast-forward
- 13. Play
- 14. Next Record
- 15. Slow-forward
- 16. Play/Pause
- 17. Stop



CHANNEL INFORMATION:

Recording 3 Video loss

2 Motion detection

Control bar Playback, display channel date,

time, speed and progress, control speed circle playback and full screen.

Control bar is hidden in full screen, click mouse to display.



3.6 MOUSE CONTROL

- Right hand operation is taken as an example
- Including the front panel and remote controller, USB mouse is supported for DVR operation. Connect USB mouse to the USB port on front or back of the DVR, and start mouse operation.

	'User and Password' dialog pops up if the user has not logged in; Enter main menu under real-time monitoring Click menu icon to enter			
	Execute operation			
Click Left-	Change status of check-box and motion detection area			
key of the Mouse	Numeric input or Alfa input (upper and lower case) supported; Click icon to finish input: click X to reset and v to confirm input or close input panel Pop up drop-down frame			
Double-	Execute special operation, like double-click the specific record in the			
click left-	record list to start playback			
key of the Mouse	Switch between full screen and multi-screen;			

Click right- key of the Mouse	Shortcut menu popup under real-time monitoring: Multi-screen (related to the number of channels supported: single-screen/four-screen for 4CH DVR), pan-tilt control (protocol correctly set up), image color, record search, manual record, alarm input, alarm output, main menu and etc. Pan-tilt control and image color set up under corresponding channel screen. Split 1 Split 4 Split 9 Split 16 Pan/Tilt/Zoom Image Color Search Manual Record Alarm Output Alarm Input Main Manual Main Manual Cancel the setup and exit.		
	Increase and decrease numerical value		
Wheel	Switch between options in combo box		
	Page-up and page-down		
Cursor	Cursor moving		
Moving			
Cursor	Motion detection area selection		
Dragging	Area covering selection		

Chapter 4.1 – 4 Channel Menu Operations

Main menu **Description** Using the mouse **❖** SEARCH Left click on **❖** INFORMATION the screen and ❖ DVR SET UP then select **❖** ADVANCE SET UP main menu. ❖ VIDEO BACK UP **❖** SYSYTEM **SHUTDOWN Description** Search Using the mouse Left click on the screen and left click on search. **Information Description** Using the mouse **❖** HARD DISK Left click on **❖** BIT RATE the screen and LOG left click on ❖ VERSION main menu and

❖ ONLINE INFO

left click on information.

Hard Disk (to setup hard disk)



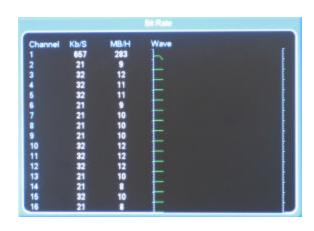
Description

To look up IDE port status, hard drive capacity (total useable), record time (start, stop) and status.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on hard disk.

Bit Rate



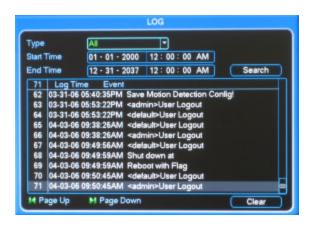
Description

Bit rate (Kb/s) and hard drive occupation (MB/h)

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on bit rate.

Log



Description

To look up what time and date some one log in to the system and what kind of events took place.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on log.

Version



Description

To look up hardware and software version and publish date.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on version.

Online Info



Description

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on online info.

DVR Set Up



Description

- SYSTEM
- **❖** COMPRESSION
- **❖** SCHEDULE
- **❖** COM PORT
- ❖ NETWORK
- **❖** ALARM
- MOTION DETECTION
- **❖** PTZ
- **❖** DISPLAY
- ❖ DEFAULT

Using the mouse

Left click on the screen and left click on main menu and left click on DVR setup.

System



Description

Reset date, time and display format; Set record file length; configure DVR remote control address.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on system.

Compression



Description

Configure the recording frame rate and image quality for each camera; start / stop audio recording.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on compression.

Schedule



Description

Configure the recording time; activate, deactivate timing, alarm and motion-triggered recording.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on schedule.

Com Port



Description

Setting of parameters such as serial port function and baud rate.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on com port.

Network



Description

Set up network parameters: IP address, subnet mask, default gateway, TCP/IP ports.

Note: Click on enable DDNS and enter the server IP and the port number, this would allow the user to type in the IP address and the port number anywhere using the internet, to log in to the system.

Note: If there is a modem being used, click on enable PPPoE and enter the user name and the password and click save.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on network.

Alarm



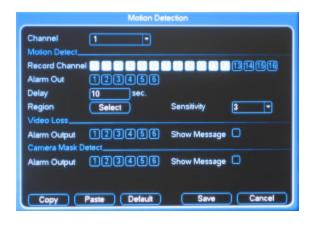
Description

Setting of exterior alarm output and responding record parameter.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on network.

Motion Detection



Description

Configure all kinds of video detection parameters, sensing area, sensitivity levels, alarm out put and etc.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on motion detection.

PTZ



Description

Configure PTZ cameras: protocol, communication parameters, and communication address.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on PTZ.

Display



Description

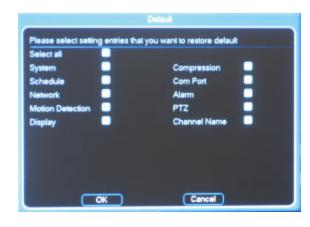
monitoring parameters.

Setting of GUI and L

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on display.

Default



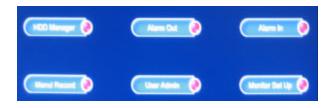
Description

Restore system parameters to the factory default.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on default.

Advanced Setup



Description

- HDD MANAGERALARM OUT
- ❖ ALARM IN
- MANUAL RECORD
- **❖** USER ADMIN
- MONITOR SET UP

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up.

HDD Manager



Description

delete HDD data.

Operations such as to Le

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on HDD manager.

Redundant



Description

To setup a second hard drive, to backup what being recorded in the first hard drive.

Note: There should be a minimum of two hard drives to set up the redundant function.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced setup and left click on HDD manager and select
REDUNDANT in the set to selection.

Redundant (finish setting up the redundant function)



Description

In the schedule menu set the channel, day, time and thick the box beside the redundancy and click on save. This would automatically backup the recording data to the second hard drive according to the time and date that have been set.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR setup and left click on schedule.

Alarm Out



Description

Alarm output signal provided manually.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click alarm out.

Alarm In



Description

Enable switching alarm input.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on alarm in.

Manual Record



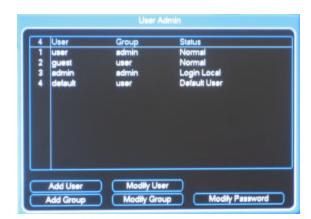
Description

Using the mouse

Start or stop recording of certain channels.

Left click on the screen and left click on main menu and left click on advanced set up and left click on manual record.

User Admin



Description

Using the mouse

Account management.

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin.

Add User



Description

To add users to the system.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on add user.

Modify User



Description

To modify user setting.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify user.

Add Group



Description

To add a group.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on add group.

Modify Group



Description

Using the mouse

To modify a group.

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify group.

Modify Password



Description

To modify user password.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify password.

Auto Maintain



Description

To auto maintain system reboot and to delete old files.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on auto maintain.

Monitor Set Up



Description

Adjust the region and color of TV Output.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on monitor setup.

Video Backup



Description

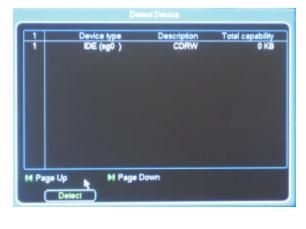
Backup recorded files onto other medium through CDRW \ DVD drive or USB hard drives.

Using the mouse

Left click on the screen and left click on main menu and left click video on backup.

Using the mouse

Detect Device

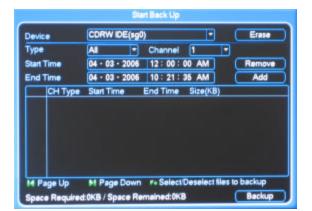


Description

Check backup device.

Left click on the screen and left click on main menu and left click on video backup and left click on detect device.

Start Backup



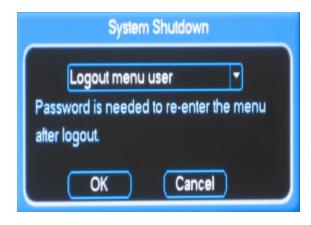
Description

Backup files to backup device or delete data on the device.

Using the mouse

Left click on the screen and left click on main menu and left click on video backup and left click on start backup.

System Shutdown



Description

Logout the OSD menu or reset/restart the system. After idle for standby time (no inputs), the system will exit OSD automatically.

Using the mouse

Left click on the screen and left click on main menu and left click video backup.

Chapter 4.2 – 8 Channel Menu Operations

Main menu **Description** Using the mouse **❖** SEARCH Left click on **❖** INFORMATION the screen and ❖ DVR SET UP then select **❖** ADVANCE SET UP main menu. ❖ VIDEO BACK UP **❖** SYSYTEM **SHUTDOWN Description** Search Using the mouse Left click on the screen and left click on search. Information **Description** Using the mouse **❖** HARD DISK Left click on **❖** BIT RATE the screen and LOG left click on

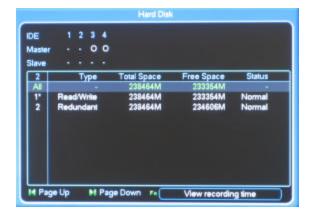
❖ VERSION

❖ ONLINE INFO

main menu and

left click on information.

Hard Disk (to setup hard disk)



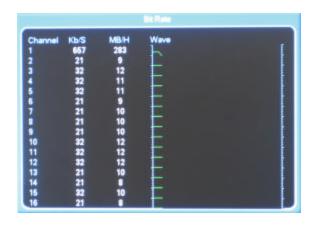
Description

To look up IDE port status, hard drive capacity (total useable), record time (start, stop) and status.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on hard disk.

Bit Rate



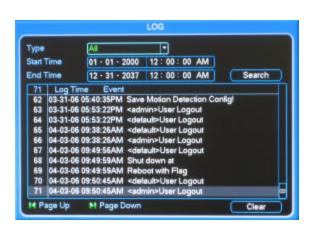
Description

Bit rate (Kb/s) and hard drive occupation (MB/h)

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on bit rate.

Log



Description

To look up what time and date some one log in to the system and what kind of events took place.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on log.

Version



Description

To look up hardware and software version and publish date.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on version.

Online Info



Description

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on online info.

DVR Set Up



Description

- **❖** SYSTEM
- **❖** COMPRESSION
- **❖** SCHEDULE
- **❖** COM PORT
- ❖ NETWORK
- **❖** ALARM
- MOTION DETECTION
- **❖** PTZ
- **❖** DISPLAY
- ❖ DEFAULT

Using the mouse

Left click on the screen and left click on main menu and left click on DVR setup.

System



Description

Reset date, time and display format; Set record file length; configure DVR remote control address.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on system.

Compression



Description

Configure the recording frame rate and image quality for each camera; start / stop audio recording.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on compression.

Schedule



Description

Configure the recording time; activate, deactivate timing, alarm and motion-triggered recording.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on schedule.

Com Port



Description

Setting of parameters such as serial port function and baud rate.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on com port.

Network



Description

Set up network parameters: IP address, subnet mask, default gateway, TCP/IP ports.

Note: Click on enable DDNS and enter the server IP and the port number, this would allow the user to type in the IP address and the port number anywhere using the internet, to log in to the system.

Note: If there is a modem being used, click on enable PPPoE and enter the user name and the password and click save.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on network.

Alarm



Description

Setting of exterior alarm output and responding record parameter.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on network.

Motion Detection



Description

Configure all kinds of video detection parameters, sensing area, sensitivity levels, alarm out put and etc.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on motion detection.

PTZ



Description

Configure PTZ cameras: protocol, communication parameters, and communication address.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on PTZ.

Display



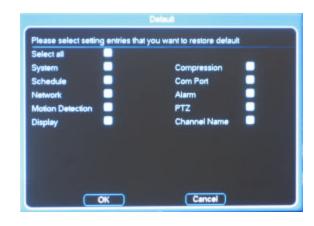
Description

Using the mouse

Setting of GUI and monitoring parameters.

Left click on the screen and left click on main menu and left click on DVR set up and left click on display.

Default



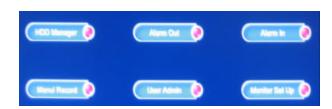
Description

Restore system parameters to the factory default.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on default.

Advanced Setup



Description

- ❖ HDD MANAGER❖ ALARM OUT
- ❖ ALARM IN
- MANUAL RECORD
- ❖ USER ADMIN
- MONITOR SET UP

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up.

HDD Manager



Description

Operations such as to delete HDD data.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on HDD manager.

Redundant



Description

To setup a second hard drive, to backup what being recorded in the first hard drive.

Note: There should be a minimum of two hard drives to set up the redundant function.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced setup and left click on HDD manager and select
REDUNDANT in the set to selection.

Redundant (finish setting up the redundant function)



Description

In the schedule menu set the channel, day, time and thick the box beside the redundancy and click on save. This would automatically backup the recording data to the second hard drive according to the time and date that have been set.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR setup and left click on schedule.

Alarm Out



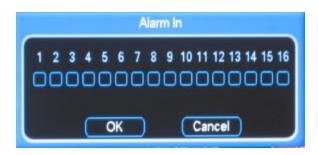
Description

Alarm output signal provided manually.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click alarm out.

Alarm In



Description

Enable switching alarm input.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on alarm in.

Manual Record



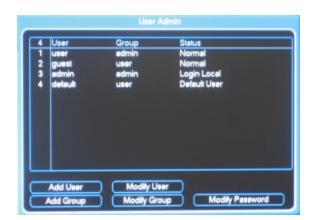
Description

Using the mouse

Start or stop recording of certain channels.

Left click on the screen and left click on main menu and left click on advanced set up and left click on manual record.

User Admin



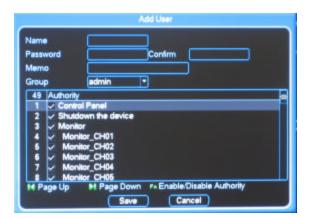
Description

Using the mouse

Account management.

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin.

Add User



Description

To add users to the system.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on add user.

Modify User



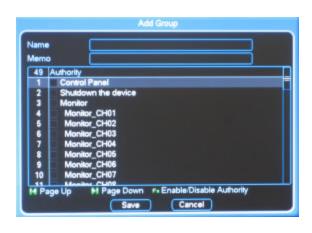
Description

To modify user setting.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify user.

Add Group



Description

To add a group.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on add group.

Modify Group



Description

Using the mouse

To modify a group.

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify group.

Modify Password



Description

To modify user password.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify password.

Auto Maintain



Description

To auto maintain system reboot and to delete old files.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on auto maintain.

Monitor Set Up



Description

Adjust the region and color of TV Output.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on monitor setup.

Video Backup



Description

Backup recorded files onto other medium through CDRW \ DVD drive or USB hard drives.

Using the mouse

Left click on the screen and left click on main menu and left click video on backup.

Using the mouse

Detect Device



Description

Check backup device.

Left click on the screen and left click on main menu and left click on video backup and left click on detect device.

Start Backup



Description

Backup files to backup device or delete data on the device.

Using the mouse

Left click on the screen and left click on main menu and left click on video backup and left click on start backup.

System Shutdown



Description

Logout the OSD menu or reset/restart the system. After idle for standby time (no inputs), the system will exit OSD automatically.

Using the mouse

Left click on the screen and left click on main menu and left click video backup.

Chapter 4.3 – 16 Channel Menu Operations

Main menu **Description** Using the mouse **❖** SEARCH Left click on **❖** INFORMATION the screen and ❖ DVR SET UP then select **❖** ADVANCE SET UP main menu. ❖ VIDEO BACK UP **❖** SYSYTEM **SHUTDOWN Description** Search Using the mouse Left click on the screen and left click on search. **Information Description** Using the mouse **❖** HARD DISK Left click on **❖** BIT RATE the screen and LOG left click on ❖ VERSION main menu and

❖ ONLINE INFO

left click on information.

Hard Disk (to setup hard disk)



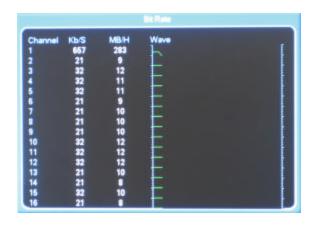
Description

To look up IDE port status, hard drive capacity (total useable), record time (start, stop) and status.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on hard disk.

Bit Rate



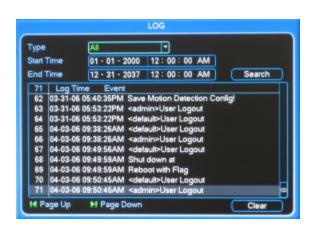
Description

Bit rate (Kb/s) and hard drive occupation (MB/h)

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on bit rate.

Log



Description

To look up what time and date some one log in to the system and what kind of events took place.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on log.

Version



Description

To look up hardware and software version and publish date.

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on version.

Online Info



Description

Using the mouse

Left click on the screen and left click on main menu and left click on information and left click on online info.

DVR Set Up



Description

- ❖ SYSTEM
- **❖** COMPRESSION
- **❖** SCHEDULE
- **❖** COM PORT
- ❖ NETWORK
- **❖** ALARM
- MOTION DETECTION
- **❖** PTZ
- **❖** DISPLAY
- ❖ DEFAULT

Using the mouse

Left click on the screen and left click on main menu and left click on DVR setup.

System



Description

Reset date, time and display format; Set record file length; configure DVR remote control address.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on system.

Compression



Description

Configure the recording frame rate and image quality for each camera; start / stop audio recording.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on compression.

Schedule



Description

Configure the recording time; activate, deactivate timing, alarm and motion-triggered recording.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on schedule.

Com Port



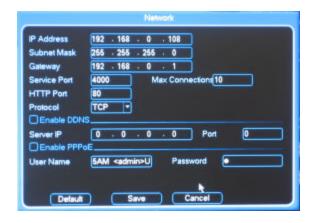
Description

Setting of parameters such as serial port function and baud rate.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on com port.

Network



Description

Set up network parameters: IP address, subnet mask, default gateway, TCP/IP ports.

Note: Click on enable DDNS and enter the server IP and the port number, this would allow the user to type in the IP address and the port number anywhere using the internet, to log in to the system.

Note: If there is a modem being used, click on enable PPPoE and enter the user name and the password and click save.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on network.

Alarm

Description

Setting of exterior alarm output and responding record parameter.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on network.

Motion Detection



Description

Configure all kinds of video detection parameters, sensing area, sensitivity levels, alarm out put and etc.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on motion detection.

PTZ



Description

Configure PTZ cameras: protocol, communication parameters, and communication address.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on PTZ.

Display



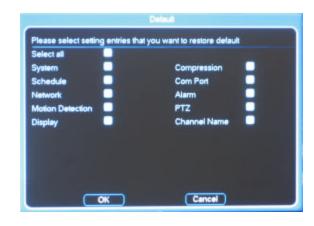
Description

Using the mouse

Setting of GUI and monitoring parameters.

Left click on the screen and left click on main menu and left click on DVR set up and left click on display.

Default



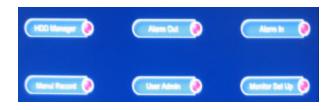
Description

Restore system parameters to the factory default.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR set up and left click on default.

Advanced Setup



Description

- HDD MANAGERALARM OUT
- ❖ ALARM OU❖ ALARM IN
- MANUAL RECORD
- **❖** USER ADMIN
- MONITOR SET UP

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up.

HDD Manager



Description

delete HDD data.

Operations such as to

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on HDD manager.

Redundant



Description

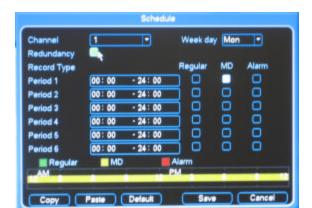
To setup a second hard drive, to backup what being recorded in the first hard drive.

Note: There should be a minimum of two hard drives to set up the redundant function.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced setup and left click on HDD manager and select
REDUNDANT in the set to selection.

Redundant (finish setting up the redundant function)



Description

In the schedule menu set the channel, day, time and thick the box beside the redundancy and click on save. This would automatically backup the recording data to the second hard drive according to the time and date that have been set.

Using the mouse

Left click on the screen and left click on main menu and left click on DVR setup and left click on schedule.

Alarm Out



Description

Alarm output signal provided manually.

Left click on the screen and left click on main menu and left click on advanced set up and left

click alarm out.

Using the mouse

Alarm In



Description

Enable switching alarm input.

mouse Left click on the screen and left click on main menu and left

Using the

click on advanced set up and left click on alarm in.

Manual Record



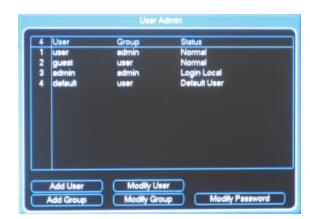
Description

Using the mouse

Start or stop recording of certain channels.

Left click on the screen and left click on main menu and left click on advanced set up and left click on manual record.

User Admin



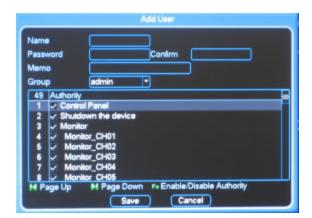
Description

Using the mouse

Account management.

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin.

Add User



Description

To add users to the system.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on add user.

Modify User



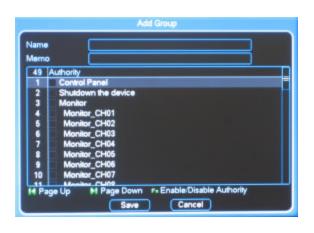
Description

To modify user setting.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify user.

Add Group



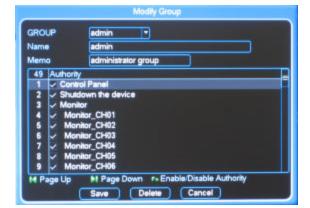
Description

To add a group.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on add group.

Modify Group



Description

Using the mouse

To modify a group.

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify group.

Modify Password



Description

To modify user password.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on user admin and left click on modify password.

Auto Maintain



Description

To auto maintain system reboot and to delete old files.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on auto maintain.

Monitor Set Up



Description

Adjust the region and color of TV Output.

Using the mouse

Left click on the screen and left click on main menu and left click on advanced set up and left click on monitor setup.

Video Backup



Description

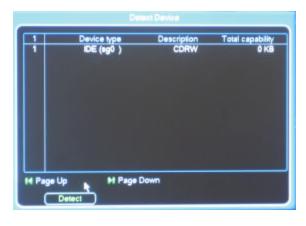
Backup recorded files onto other medium through CDRW \ DVD drive or USB hard drives.

Using the mouse

Left click on the screen and left click on main menu and left click video on backup.

Using the mouse

Detect Device

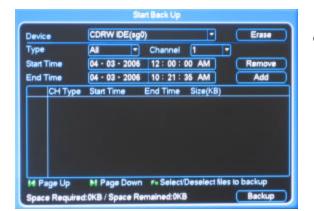


Description

Check backup device.

Left click on the screen and left click on main menu and left click on video backup and left click on detect device.

Start Backup



Description

Backup files to backup device or delete data on the device.

Using the mouse

Left click on the screen and left click on main menu and left click on video backup and left click on start backup.

System Shutdown



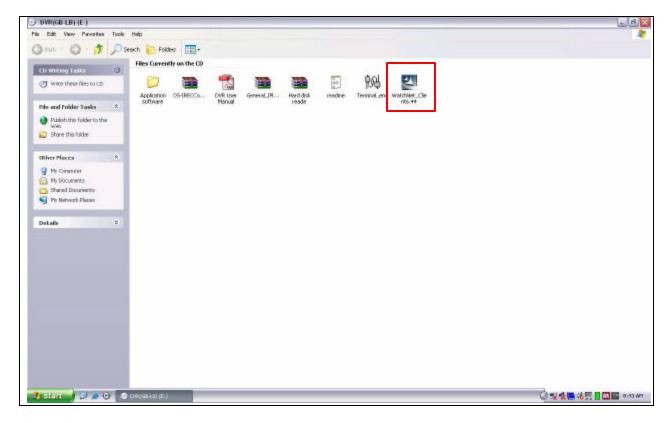
Description

Logout the OSD menu or reset/restart the system. After idle for standby time (no inputs), the system will exit OSD automatically.

Using the mouse

Left click on the screen and left click on main menu and left click video backup.

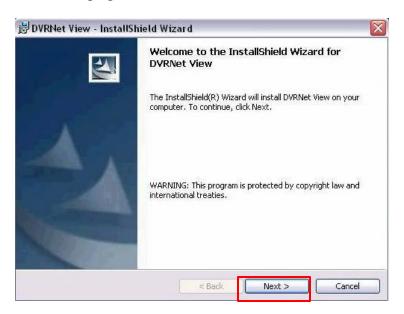
WatchNet Client Software Installation



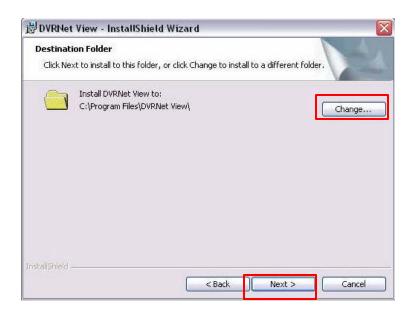
❖ Insert the software CD in to the CD or DVD-Rom drive and then left click on my computer and then left click on CD or DVD-Rom drive and left click on WatchNet_Client 6.44.



❖ When the WatchNet_Client6.44 icon in the CD or DVD-Rom drive is left clicked, the software would prepare to install.



❖ To continue with the installation click next.



❖ Click next to install to the folder, or click change to install to a different folder.



❖ When left clicked on change on the previous screen, the screen above would appear. Browse to the destination folder and click ok to continue with the installation.



* Click install to begin the installation and to review or change any of installation setting click back or click cancel to exit the installation wizard.



❖ During the installation in may take several minutes, according to the system speed.



Now the DVRNet View has successfully installed, left click on finish to exit the wizard.



❖ Left click on DVRNet View icon in the desktop to open the DVRNet View.



❖ If the DVRNet View icon doesn't appear in the desk top, left click on the start and then left click on program and then left click on DVRNet View and left click on DVRNet View again to open the DVRNet View.



❖ When the DVRNet View icon is left clicked, the DVRNet View screen would appear.

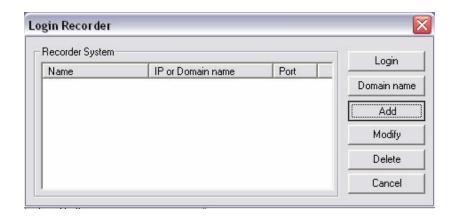
First Use



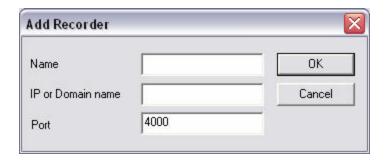
❖ The following screen will appear. Click on



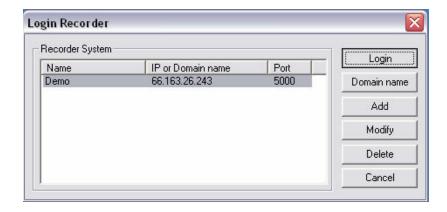
❖ For access through high speed internet or network select "Network Login" and click "OK".



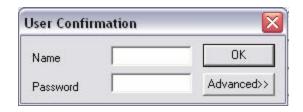
Click on "Add" to add a new site to connect to.



❖ Enter a name for the remote site you wish to connect to. Then enter the IP address of the DVR followed by the TCP port that is set for the DVR to connect to. This port is set in the network section of the DVR.



❖ Select the site and then click on "Login"



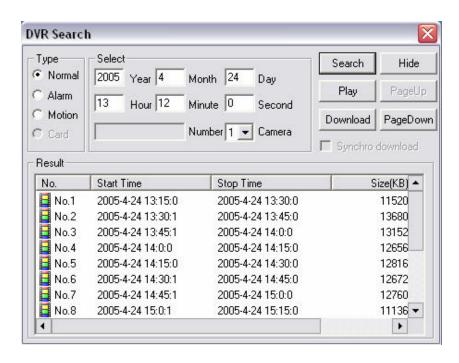
❖ Enter the username and password to log into the DVR.

The default user name is: admin The default password is: 1234



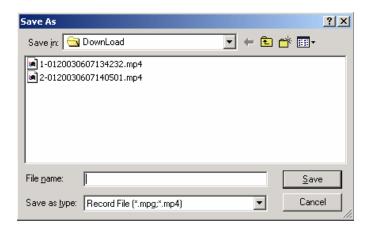
❖ To search through and playback recorded video, click on "DVR search" and then enter the date, time and camera number you want to search. Then click on "SEARCH" and the following window will appear.

DVR Search:



❖ Enter recording time, channel number and type (Normal, Alarm/Sensor, Motion) and the results will appear below. The screen displays 15 records at a time starting from the entered search time onwards. Click on "Page Up" and

"Page Down" button to get to the next next/previous group of 15 records. Once the required record is located, double click on it and system will play the record. This video can be played in full screen mode. You can also simultaneously download records to your computer. By default the records are saved in the "Download" folder in the C drive (C\Download).



- ❖ To download the video clip to your computer, select the clip and then click on download. You can select multiple clips and the software will download them all simultaneously. After clicking on download the following screen will appear:
- ❖ You must enter some text for the file name and the rest of the name will be auto generated using the following scheme.
- ❖ File name of the download consists of your entered text followed by year (e.g. 2006), month (e.g. 05), date (e.g. 29), hour (e.g. 16), min (e.g. 48), sec (e.g. 41) and camera number (e.g. [1]).
- ❖ Once the file name is entered click on save and the file will be downloaded. The following screen displays the progress of the download.





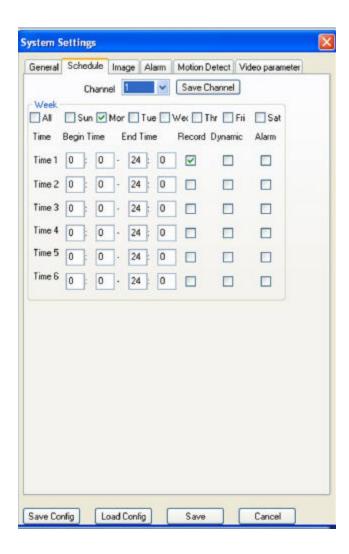
- ❖ Click on the "DVR SETUP" button and a window will appear with 6 options, System, Schedule, Image, Alarm, Motion setup and Video parameters.
- Note: If a menu item is greyed out, it can't be changed and can only be modified directly from the DVR.

General:



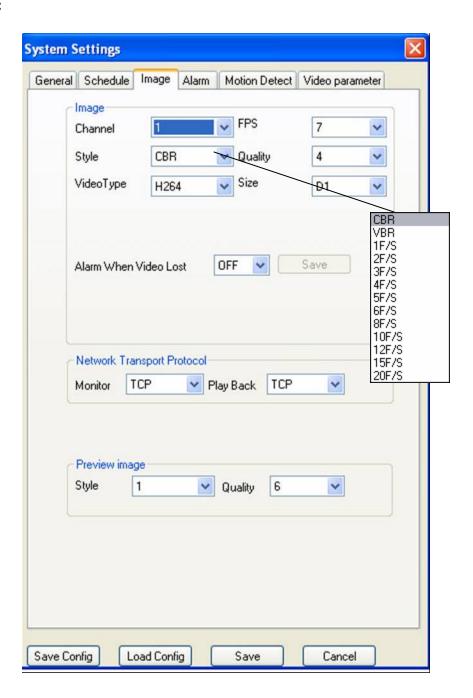
- ❖ When Disk Fill: This option allows you to prevent the DVR from automatically overwriting the hard drive when it is full.
- **PTZ Control**: Use these options to enter the control information for the PTZ camera.

Schedule:



- ❖ Week: Use to define unique recording schedules for each day or select "All" to apply the same schedule for everyday.
- ❖ Normal 1 / 2: Use this setting to record all the time. There can up to 2 start and end times for this recording method. The time entered from the start to end duration will have continues recording. And as mentioned in the note above, If you want to record on normal for 24 hours then set TIME1 as 00:00 to 24:00 in ON status and TIME2 as OFF.
- ❖ Motion Recording 1 / 2: Use this setting to record only if there is motion detected by the camera. There can up to 2 start and end times for this recording method. The time entered from the start to end duration will have motion only recording. And as mentioned in the note above, If you want to record on motion only for 24 hours then set TIME1 as 00:00 to 24:00 in ON status and TIME2 as OFF.

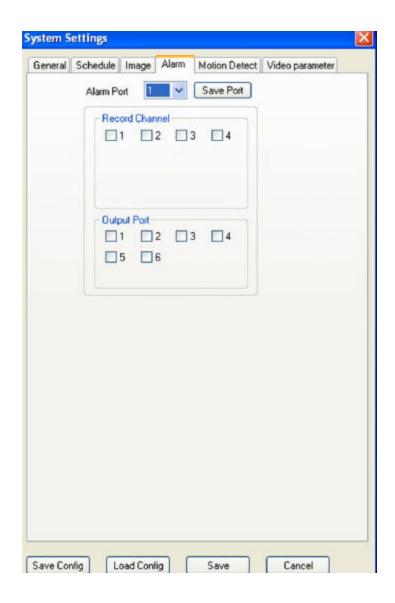
Image:



- ❖ Camera: Can be selected to modify settings for individual camera or select "ALL" to apply changes to the recording schedule for all cameras.
- ❖ Style: There are 2 recording formats, VBR (Variable Bit Rate) and CBR (Constant Bit Rate). The CBR by default records at the maximum possible frame rate but it can be manually lowered to 1 to 20 frames per seconds as shown above.

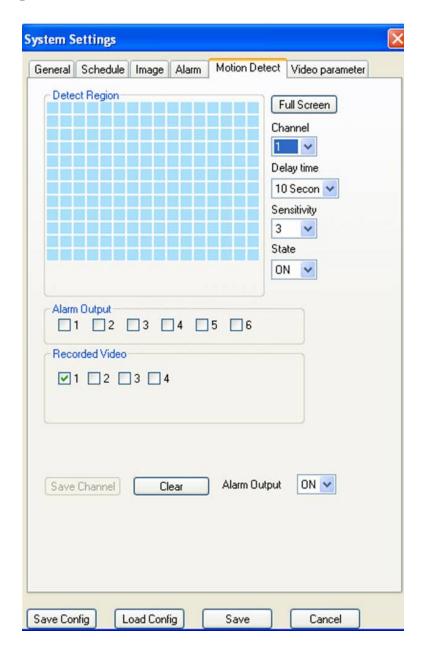
- ❖ Quality: Use this option to select the quality of the video. The higher quality takes up more space on the hard drive. There are 6 qualities 128Kb/S, 256Kb/S, 384Kb/S, 512Kb/S, 768 Kb/S, and 1 Mb/S.
- ❖ Video loss output: Use this to trigger a relay in case of video loss.
- ❖ **Network Protocol**: Use this option to select the network settings.

Alarm:



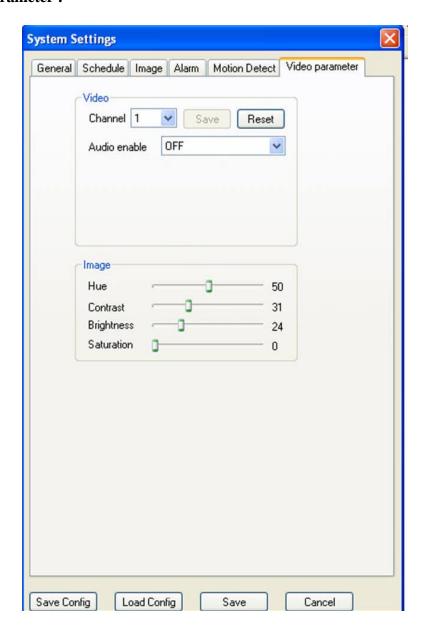
- ❖ Alarm Port: Can be selected to modify response to an individual sensor input or select "ALL" to apply changes to the action due to all input sensor.
- **❖ Record camera**: For each sensor input signal we can force a camera to start recording.
- **Output Port**: For each sensor input signal we can trigger a relay.

Motion Setup:



- ❖ **Detection Region**: The squares that are highlighted by the blue squares are the region, in which the camera will detect motion.
- ❖ Full Screen: Select the full screen to enlarge the video from the camera to the full screen allowing you to easily select the detection region. To exit the full screen mode right click any where on the screen.
- ❖ Post Rec: This is the setting for the number of seconds of recording after motion is detected.
- ❖ Sensitivity: This is to adjust the sensitivity of the motion detected in the detection region. The options are low, normal and high.

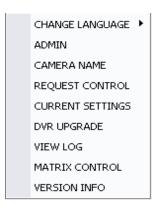
Video Parameter:



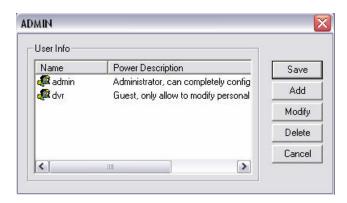
❖ This window can be used to set various attributes like the video Hue, Contrast, Brightness and Saturation, the OSD (On Screen Display) settings and audio options.



Click on DVR Config and the following options menu will appear. The details of the function are described below.



Change Language : Use this option to change the default language.

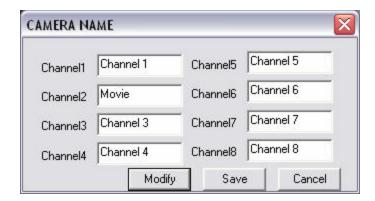


❖ Use this option to add, delete and modify users. Also you can modify access level to the DVR system for each user.



- ❖ There are 3 access levels.
- ❖ Guest: Only has access to view the cameras and modify personal details. This access level can't change anything on the system and also can not search.
- ❖ User: This access level can not change system preferences or other user's details, other wise has access to other things including search.
- administrator: Has complete access.

Camera Name:



❖ Use this option to change the display names for the cameras. The name will initially be greyed out so the user must click on the "Modify" button to be able to change the names. Click on "Save" after.

Request Control:



The web client software allows multiple users to view the video but if the user wants control of the system to access the PTZ or change information this option can be used. If an existing user already has control of the system, when a new user requests for control, the user will be asked for permission to transfer control to the new user. If the users accessing the system have the same access level the control is assigned to the first person that requests for it but if a user with higher access level is present the control is automatically transferred to the user with higher access. If only one user is logged in or the user already has control the box is greyed out.



❖ This is the prompt the user with control will receive if another user requests for the control. Click on OK to transfer the control and Cancel to keep it (not transfer control to the other user)

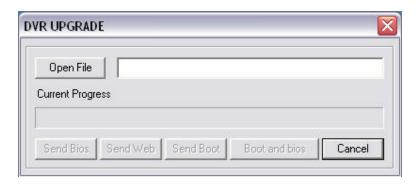
Current Settings:



❖ Use this to check system information. Also from this window the user can enable or disable the audio recording feature, select video transmission speed (real time for live video and extract frame for less transmission). If the user selects Auto Recycle Monitor the system will sequentially show each camera

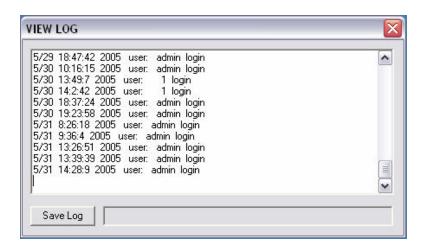
according to the time interval selected by the user.

DVR Upgrade:



❖ An Administrator can upgrade the software installed on the DVR remotely using this window. To upgrade the software click on open to browse the file, then click on the appropriate button below. After the upgrade the DVR will automatically restart.

View Log:



Use this option to view the log saved on the DVR.

Matrix Control:



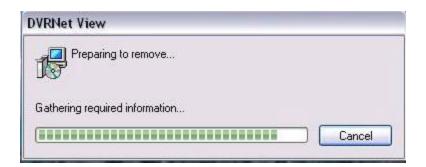
To Uninstall DVRNet View



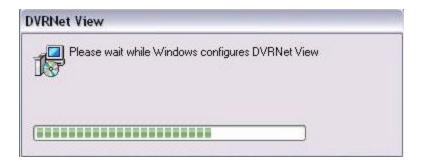
❖ Left click on Start and left click on programs and left click on DVRNet View and left click on DVRNet View again and left click on Uninstall DVRNet View.



❖ To continue with the uninstalling click yes.



❖ When yes left clicked on the above screen the windows would prepare to remove the DVRNet View.



❖ It may take several minutes to remove the DVRNet View, according the system speed.